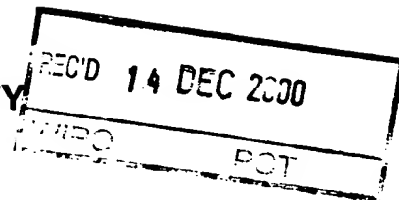


PATENT COOPERATION TREATY

PCT



INTERNATIONAL PRELIMINARY EXAMINATION REPORT



(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 7473/MH	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/US00/06606	International filing date (day/month/year) 14/03/2000	Priority date (day/month/year) 15/03/1999
International Patent Classification (IPC) or national classification and IPC C11D1/02		
Applicant THE PROCTER & GAMBLE COMPANY et al.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 6 sheets, including this cover sheet.
☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).
These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☒ Certain defects in the international application
- VIII ☒ Certain observations on the international application

Date of submission of the demand 07/09/2000	Date of completion of this report 12.12.2000
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer Irwin, L Telephone No. +49 89 2399 2527 

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/06606

I. Basis of the report

1. This report has been drawn on the basis of *(substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments (Rules 70.16 and 70.17).):*

Description, pages:

1-30 as originally filed

Claims, No.:

1-10 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:
- ☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/06606

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes:	Claims	1 - 10
	No:	Claims	
Inventive step (IS)	Yes:	Claims	1 - 10
	No:	Claims	
Industrial applicability (IA)	Yes:	Claims	1 - 10
	No:	Claims	

2. Citations and explanations **see separate sheet**

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:
see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:
see separate sheet

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The following document is cited:

D1: WO 97 06235 A (PROCTER & GAMBLE) 20 February 1997 (1997-02-20)

Novelty:

- V.i. The subject matter of the independent claim 1 is considered to be novel since the use of odour neutralisers that form Schiff bases upon reaction with an amine have not been disclosed in the above cited prior art. Although the Schiff reaction between an aldehyde and an amine is well known, it has not been previously incorporated into a detergent hand dish washing composition in order to reduce the malodours coming from the amine surfactants. Some of these compounds can act as fragrances as well as being themselves an odour neutraliser.
- V.ii. Consequently the subject matter of the dependent claims 2 - 6 is also novel.
- V.iii. The subject matter of the independent claim 7 is also considered to be novel since the method of using a Schiff reaction in order to neutralise malodours emanating from the amines present in a hand dish washing detergent composition has not been previously disclosed in the cited prior art.
- V.iv. Likewise the dependent claims 8 - 10 are also considered to be novel.
- V.v. Therefore the claims 1 - 10 are considered to be novel. *Art. 33(2) PCT.*

Inventive Step:

- V.vi. The closest prior art document is D1 since this document also discloses detergent compositions comprising amines and perfume components that reduce the malodour of the amines.

- V.vii. Therefore the technical problem of the present invention has been formulated as:
"How to provide an alternative method for reducing the malodours generated from amine surfactants that must be present since they are effective detergent surfactants".
- V.viii. The present application uses fragrance materials that mask the amine malodours by providing scents that compete with the malodours in the detergent composition for access to the nasal receptor sites. These fragrance materials mask the malodours by:
- (i) reducing the amount of time that the scents emanating from the fragrances require to diffuse into the air, and
 - (ii) increasing the potency of the scent or decreasing that of the malodour.
- V.ix. Since the use of a compound capable of forming a Schiff's base upon reaction with the amines in the detergent composition has not been previously disclosed, the subject matter of the claims 1 - 10 is considered to be inventive. *Art. 33(3) PCT.*

Re Item VII

Certain defects in the international application

- VII.i. Contrary to the requirements of Rule 5.1(a)(ii) of the PCT, the relevant background art disclosed in document D1 is not mentioned in the description, nor is this document identified therein.
- VII.ii. The phrase "... herein incorporated by reference" as used for example in the description on page 3 (line 18), is an expression not to be used since it renders the extent of the protection unclear (Guidelines, PCT/GL/3 III, 4.3a).

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/US00/06606

Re Item VIII

Certain observations on the international application

- VIII.i. The amounts of each respective component of the composition should be quoted in **weight. %** and not simply percentages.
- VIII.ii. Also in claim 1, the pH value should ideally be incorporated into the preamble part of the claim.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 7473/MH	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/US 00/ 06606	International filing date (day/month/year) 14/03/2000	(Earliest) Priority Date (day/month/year) 15/03/1999
Applicant THE PROCTER & GAMBLE COMPANY et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 00/06606

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

Disclosed are detergent compositions, particularly for manual dishwashing which, by incorporating a combination of anionic surfactants, solvents and certain selected perfume compositions that do not have the malodors associated with certain nitrogenous ingredients such as amines. Also disclosed are the perfume compositions themselves, characterised by 30% to 100% of an odor neutralizer capable of forming a Schiff base when reacted with an anime, said compositions having a p_{tl} of from 8.5 to 12.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/06606

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C11D1/02 C11D3/43 C11D3/30 C11D3/50 C11D3/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C11D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal, PAJ, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 97 06235 A (PROCTER & GAMBLE) 20 February 1997 (1997-02-20) abstract; claims 1,9 -----	1-7

☐ Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

13 July 2000

Date of mailing of the international search report

25/07/2000

Name and mailing address of the ISA

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Fax: (+31-70) 340-3016

Authorized officer

Saunders, T

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 00/06606

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9706235 A	20-02-1997	BR 9609985 A	12-01-1999
		CA 2228966 A	20-02-1997
		EP 0843719 A	27-05-1998
		JP 11510541 T	14-09-1999

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Assistant Commissioner for Patents
United States Patent and Trademark
Office
Box PCT
Washington, D.C.20231
ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 23 October 2000 (23.10.00)	
International application No. PCT/US00/06606	Applicant's or agent's file reference 7473/MH
International filing date (day/month/year) 14 March 2000 (14.03.00)	Priority date (day/month/year) 15 March 1999 (15.03.99)
Applicant KAISER, Carl, Eric et al	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:

07 September 2000 (07.09.00)

☐ in a notice effecting later election filed with the International Bureau on:

2. The election
- ☒
- was

☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

<p>The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland</p> <p>Facsimile No.: (41-22) 740.14.35</p>	<p>Authorized officer R. E. Stoffel</p> <p>Telephone No.: (41-22) 338.83.38</p>
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FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
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DK	Denmark	LK	Sri Lanka	SE	Sweden		
EE	Estonia	LR	Liberia	SG	Singapore		

INTERNATIONAL SEARCH REPORT

Int. l. Application No

PCT/US 00/06606

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C11D1/02 C11D3/43 C11D3/30 C11D3/50 C11D3/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C11D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal, PAJ, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 97 06235 A (PROCTER & GAMBLE) 20 February 1997 (1997-02-20) abstract; claims 1,9 -----	1-7

☐ Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

13 July 2000

Date of mailing of the international search report

25/07/2000

Name and mailing address of the ISA

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Authorized officer

Saunders, T

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 00/06606

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9706235 A	20-02-1997	BR 9609985 A	12-01-1999
		CA 2228966 A	20-02-1997
		EP 0843719 A	27-05-1998
		JP 11510541 T	14-09-1999
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